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## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

	PCT			
To: Sanford T. Colb & Co.				
P.O. Box 2273 76122 Rehovot Israel	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
	Date of mailing (day/month/year)			
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/!L 08/00687	International filing date (day/month/year) 20 May 2008 (20.05.2008)			
Applicant SMART MEDICAL SYSTEMS LTD.				
· · · · · · · · · · · · · · · · · · ·				
The applicant is hereby notified that the international is  Authority have been established and are transmitted hereby.	search report and the written opinion of the International Searching rewith.			
Filing of amondments and statement under Article The applicant is entitled, if he so wishes, to amend the	GISIMS OF MCCHIRINITY SPENDS (2007)			
international search report.	ents is normally two months from the date of transmittal of the			
Where? Directly to the International Burcau of W 1211 Geneva 20, Switzerland, Facsimils	140" +41 55 330 0510			
For more detailed instructions, see the notes on the	I seem to some will be established and that the declaration under			
Article 17(2)(a) to that effect and the written opinion	Of the unemark popularies and			
1	has been transmitted to the International Bureau together with the			
applicant's request to forward the texts of both	title biotest sing the accision mercan to air			
no decision has been made yet on the protest;	the applicant will be notified as soon as a decision is made.			
4. Reminders  Shortly after the expiration of 18 months from the priority date, the international application will be published by the Shortly after the expiration of 18 months from the priority date, the international application, a notice of withdrawal of the international International Bureau, If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international International Bureau as provided in Rules 90645.1 and 90645.3, respectively application, or of the priority claim, must reach the International Publication.  Some publication of the technical preparations for international publication.				
The applicant may submit comments on an informal basis on the written opinion of the international Section 2. Offices unless an International Bureau will send a copy of such comments to all designated Offices unless an International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to international preliminary examination of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international phase until 30 months from the priority examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date, perform the prescribed date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed				
acts for entry into the national phase before mose designated Offices.  In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within months.  See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant				
See the Annex to Form PCT/IB/301 and, for details about to Guide, Volume II, National Chapters and the WIPO Interne	st site.			
Name and mailing address of the ISA/US	Authorized officer:			
Mail Stop PCT, Atta: ISA/US Commtesioner for Petents P.O. Box 1460, Alexandria, Virginia 22313-1450	Lee W. Young PCT Helpde≤k: 571-272-4300			
Facsimile No. 571-272-3201	PCT OSP: 571-272-7774			

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)



## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	T) ( · · · · · · · · · · · · · · · · · ·	
To: Sanford T. Colb & Co. P.O. Box 2273 76122 Rehovot Israel	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION  (PCT Rule 44.1)	
	Date of mailing (day/month/year) 09 JUL 2009	
Applicant's or agent's file reference	FOR FURTHER ACTION Sec paragraphs 1 and 4 below	
International application No. PCT/IL 08/00687	International filing date (day/month/year) 20 May 2008 (20.05.2008)	
Applicant SMART MEDICAL SYSTEMS LTD.		
1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.  Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.  Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 8270  For more detailed instructions, see the notes on the accompanying sheet.  2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.  3. With regard to the protest against payment of (an) additional fec(s) under Rule 40.2, the applicant is notified that:  the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.  4. Reminders  Shortly after the expiration of 18 months from the priority date, the international application will be published by the international		
Shortly after the expiration of 18 months from the priority date, the international International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis. 1 and 90bis. 3, respectively, application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis. 1 and 90bis. 3, respectively, application, or of the priority to the comments of the technical preparations for international publication.  The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an International preliminary examination report has been or is to be established. These comments would also be made available to international preliminary examination of 30 months from the priority date.  Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.  In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.  See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.		
Name and mailing address of the ISA/US	Authorized officer:	
Mail Stop PCT, Attn: ISA/US	Lee W. Young	
Commissioner for Patente' P.O. Box (450, Alexandria, Virginia 22313-1450	PCT Helpdesk: 571-272-4800	

PCT Helpdesk: 571-272-4800 PCT OSP: 571-272-7774

## PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/	(Earliest) Priority Date (day/month/year)
PCT/IL 08/00687	20 May 2008 (20.05.2008)	21 May 2007 (21.05.2007)
Applicant SMART MEDICAL SYSTEMS LTD.		
This international search report has according to Article 18. A copy is be	been prepared by this International Scar ing transmitted to the International Bure	rching Authority and is transmitted to the applicant au.
This international search report consi	sts of a total of sheets.  y a copy of each prior art document cites	d in this report.
1. Basis of the report		,
	the international search was carried out	
1000	application in the language in which it wa	as filed.  Which is the language of
a translation furni	e international application into ished for the purposes of international se	arch (Rules 12.3(a) and 23.1(b)).
b. This international search authorized by or notific	th report has been established taking in d to this Authority under Rule 91 (Rule	to account the rectification of an obvious mistake 43.6 <i>bis</i> (a)).
c. With regard to any nucl	leotide and/or amino acid sequence dis	closed in the international application, see Box No. I.
2. Certain claims were fo	ound unsearchable (see Box No. II).	
3. Unity of invention is la	acking (see Box No. III).	
<ol> <li>With regard to the title.</li> </ol>		
	submitted by the applicant.	
the text has been estable	ished by this Authority to read as follow	'S.
•		
		,
5. With regard to the abstract.	· · · · · · · · · · · · · · · · · · ·	
l <del>;</del>	submitted by the applicant.	Authority as it appears in Box No. IV. The applicant one search report, submit comments to this Authority.
the text has been estable may, within one month	lished, according to Rule 36.2(0), by two from the date of mailing of this internati	onal search report, submit comments to this Authority
6. With regard to the drawings,	1	
Warner -	o be published with the abstract is Figure	e No. <u>IA</u>
as suggested by:	the applicant.	d to current o figure
as selected by th	is Authority, because the applicant failed	to suggest a tiguis.
	is Authority, because this figure better of	UM SCICINGS THE WASHINGTON
b none of the figures is t	o be published with the abstract.	

### INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL 08/00687

73 - 10 - 11 - 11 - 11 - 11 - 11 - 11 - 1	s where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search repo	ort has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate	to subject matter not required to be searched by this Authority, namely:
[ <del>]</del> -	
2 Claims Nos.:  hecause they relate extent that no mea	e to parts of the international application that do not comply with the prescribed requirements to such an injury international search can be carried out, specifically:
·	
ł	dependent claims and are not drafted in accordance Will the second and time sentences of reals of the
Box No. III Observatio	ns where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching	Authority found multiple inventions in this international application, as follows:
"— 888 COMMERCATION Street —	, and the second
·	
As all required as claims.	dditional search fees were timely paid by the applicant, this international search report covers all searchable
2. As all searchable	e claims could be scarched without effort justifying additional fees, this Authority did not invite payment of
additional fees.	
3. As only some of only those claim.	the required additional search fees were timely paid by the applicant, this international search report covers s for which fees were paid, specifically claims Nos.:
4. No required address restricted to the 1-5, 10-14, 19-2!	litional search fees were timely paid by the applicant. Consequently, this international search report is invention first mentioned in the claims; it is covered by claims Nos.: , 29
Remark on Protest	The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
	The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
	No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (2)) (April 2007)

### INTERNATIONAL SEARCH REPORT

International application No. PCT/IL 08/00687

· · · · · · · · · · · · · · · · · · ·		The state of the s		
(PC(8) - 7	SSIFICATION OF SUBJECT MATTER A61M 25/10 (2009.01) 304/528			
According to International Patent Classification (IPC) or to both national classification and IPC				
	DS SEARCHED			
1PC(8) - A61 USPC - 604/		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Documentati A61M 25/00 604/264, 918	on scarched other than minimum documentation to the exte , 25/01 (2009.01) 5, 916, 523	nt that such documents are included in the	fields scarched	
	us hase consulted during the international search (name of d ISPT,PGPB,EPAB,JPAB); Google Scholar; is Used: catheter, bend, flex, deflect, guidewire, steer, ba		rms used)	
C. DOGU	MENTS CONSIDERED TO BE RELEVANT		D-1	
Category*	Citation of document, with indication, where app	oroprials, of the relevant passages	Relevant to claim No.	
X	US 6,951,554 B2 (JOHANSEN et al.) 04 October 2005 ( especially col 2, in 20-40, col 2, in 67 - col 3, in 5, col 5,	1, 3, 4/(1,3), 5/(1,3), 10, 12, 13/(10,12) and 14/(10,12)		
Y			19-21 and 29	
x	US 2005/0273021 A1 (BURGERME/STER) 08 December 2005 (08.12.2005) Entire document, especially para[0003], para[0018], para[0002]-[0024], para[0029] and FIGS. 1-2.			
Y	WO 2004/101059 A1 (KENNEDY) 25 November 2004 (		19-21	
Y	US 2006/0241345 A1 (OISH) et al.) 26 October 2005 (2	28		
		•		
		•		
	<u> </u>		<u> </u>	
Furth	ter documents are listed in the continuation of Box C.		<del>\</del>	
A" docum	al categories of cited documents: nent defining the general state of the art which is not considered	"T" later document published after the inte- date and not in conflict with the appli- the principle or theory underlying the	metional filing date or priority leation but cited to understand invention	
to be of particular relevance:  "E" carlier application or patent but published on or after the international "X" document of particular relevance; the claimed in considered novel or cannot be considered to in filing date.			e elaimed invention cannot be dered to involve an inventive	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "L" document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document special reason (as specified)  "C" document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document of particular relevance.				
means "P" document published prior to the international filing date but later than "E" document member of the same patent family				
(Jie bi	nomity date claimed	Date of mailing of the international sea	e comp	
	e actual completion of the international search 109 (19,05,2009)	09 JUL 2009		
Nome and	mailing address of the ISA/US	Authorized officer:	_	
Mall Stop P P.O. Box 1	'CT', Attn: ISA/US, Commissioner for Patents 450, Alexandria, Virginia 22313-1450	Le≎ W. Youts PCT Nelpde2k: 671-272-4300 PCT OSP: 571-272-7774	g	
) Facsimil¢	No. <del>5</del> 71-273 <b>-3201</b>		ture ture	

#### INTERNATIONAL SEARCH REPORT

International application No. PCT/IL 08/00687

Box No III: Observations where unity of invention to tacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

in order for more that one species to be examined, the appropriate examination fees must be paid.

The Species are as follows:

Group I: corresponding to a catheter having a lumen, a flexible or bendable portion and a balloon

Group II: corresponding to a catheter having a tapered balloon

Group III; corresponding to an external tube for a catheter or endoscope having liquid communication ports

The claims are deemed to correspond to the species listed above in the following manner

Group t: claims 1-5, 10-14, 19-21, 29

Group II: claims 23, 24, 29

@roup III; claims 25-28

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2 the species lack the same or corresponding special technical features for the following reasons:

The special technical feature of Group I is a flexible or bendable portion, the special technical feature of Group II is a tapered balloon and the special technical feature of Group III is a liquid communication port.

Neither of these technical features is common to othe other group nor do they correspond to a special technical feature in the other groups.

The following claim is generic to groups I and II: 29

These generic claim does not avoid the prior art, as evidenced by US 2007/0016165 A1 to VON QEPEN which teaches a catheter having variable stiffness along its length and a balloon which may be tapered (para [0012], [0014], [0031]).

Thus, unity of invention is lacking under PCT Rule 13 because the groups do not share, the same or corresponding special technical feature.

### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHOR	RITY			
To: Sanford T, Coib & Co. P.O. Box 2273			PCT	
76122 Rehovet Israel			TTEN OPINION OF THE DNAL SEARCHING AUTHORITY	
			(PCT Rule 43 bis.1)	
		Date of mailing (day/month/year)	09 JUL 2009	
Applicant's or agent's file reference 65302		FOR FURTHER ACTION See paragraph 2 below		
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/IL 08/00687	20 May 2008 (20.0	•	21 May 2007 (21.05.2007)	
International Patent Classification (IPC) of IPC(8) - A61M 25/10 (2009.01)	r both national classifica	ation and IPC		
Applicant SMART MEDICAL SYS	TEMS LTD.			
1. This opinion contains indications rela	iting to the following ite	m5:		
Box No. I Basis of the op	inion		·	
Box No. II Priority				
Box No. III Non-establishn	nest of opinion with reg	ard to novelty, inventive	e step and industrial applicability	
Box No. IV Lack of unity of	Finvention			
Box No. V Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain docum	ents cited		·	
Box No. VII Certain defects	in the international app	lication		
Box No. VIII Certain observe	ations on the internation	al application		
<ol> <li>FURTHER ACTION</li> <li>If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.</li> <li>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.</li> <li>For further options, see Form PCT/ISA/220.</li> <li>For further details, see notes to Form PCT/ISA/220.</li> </ol>				
	181		11 11 11 11 11 11 11 11 11 11 11 11 11	
Name and mailing address of the ISA/US	Date of completion of	f this opinion	Authorized officer:	
Mail Stop PCT, Attn: iSA/US	19 May 2009 (19		Lee W. Young	
Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450	Ta May 2009 (16	,, <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	PCT Halpdesk: 571-272-4300 PCT OSE: 571-272-7774	

Form PCT/ISA/237 (cover sheet) (April 2007)

International application No.

PCT/IL 08/00687

Box No	. I Basis of this opinion
ı wi	th regard to the language, this opinion has been established on the basis of:
ı İX	·
	n translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.	This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(2))
	ith regard to any quelectide and/or amino acid sequence disclosed in the international application, this opinion has been ablished on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
	o
· <b>b</b> .	paners
	in electronic form
	III Olygonya Jam.
C.	time of filing/furnishing
	contained in the international application as filed
	filed together with the international application in electronic form
	furnished subsequently to this Authority for the purposes of search
4.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filled or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filled or does not go beyond the application as filled, as appropriate, were furnished.
5 1	iditional comments:
,, A.	

International application No.
PCT/IL 08/00687

Box No.	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	tions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially a have not been examined in respect of
	the entire international application
	6-9, 15-18 and 22 claims Nos.
	Claums 140s.
becaus	the said international application, or the said claims Nos relate to the following subject matter which does not require an international scarch (specify):
Ï	
	the description, claims or drawings (indicate particular elements below) or said claims Nos. 6-9, 15-18, 22
cialms 6-9	are so unclear that no meaningful opinion could be formed <i>(specify)</i> : 1, 15-18, 22 are improper multiple dependent claims not in compliance with the second and third sentences of PCT Rule 6.4(a)
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):
	no international search report has been established for said claims Nos.
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	firmish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable
	to it.  furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Anthority in a form and manner acceptable
	to it.  pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rule 13ter. I(a) or (b).
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	Sec Supplemental Box for further details.

International application No.
PCT/IL 08/00687

Box No. IV Lack of unity of invention
In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:  paid additional fees
paid additional fees under protest and, where applicable, the protest fee
paid additional fees under protest but the applicable protest fee was not paid
not paid additional fees
2. This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
complied with
oot complied with for the following reasons:
In order for more that one species to be examined, the appropriate examination fees must be paid.
The Species are as follows:
Group I: corresponding to a catheter having a lumen, a flexible or bendable portion and a balloon.  Group II: corresponding to a catheter having a tapered balloon.  Group III: corresponding to an external tube for a catheter or endoscope having liquid communication ports.
The claims are deemed to correspond to the spacies listed above in the following manner
Group It claims 1-5, 10-14, 19-21, 29 Group II: claims 23, 24, 29 Group III: claims 25-28
The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2 the species lack the same or corresponding special technical features for the following reasons:
The special technical feature of Group I is a fiexible or bendable portion, the special technical feature of Group II is a tapered balloon and the special technical feature of Group III is a tiquid communication port.
Neither of these technical features is common to othe other group nor do they correspond to a special technical feature in the other groups.
The following claim is generic to groups I and !!: 29
These generic claim does not avoid the prior art, as evidenced by US 2007/0016165 A1 to VON OEPEN which teaches a catheter having variable stiffness along its length and a balloon which may be tapered (para [0012], [0014], [0031]).
Thus, unity of invention is lacking under PCT Rule 13 because the groups do not share, the same or corresponding special technical feature.
4. Consequently, this opinion has been established in respect of the following parts of the international application:
all parts
the parts relating to claims Nos

International application No.
PCT/IL 08/00687

Box f	νο. V	Reasoned statement un citations and explanation	der Ruic 43 <i>6</i> ons supportin	is.1(a)(i) with regard to novelty, inventive step or industrial applic g such statement	:ability;
1.	Statemen	nt,			
	3.1	I 00	Claims	19-21 and 29	YES
	Nove	lty (ੀਪੀ)	Claims Claims	1-5 and 10-14	NO
			C(alibs		_ * · · ·
	_		O1	None	YES
	Inven	tive step (IS)	Claims	1-5, 10-14, 19-21 and 29	- , <u>-</u> ОИ
			Claims		_ 110
				1-5, 10-14, 19-21 and 29	YES
	Indus	arial applicability (IA)	Claims	None	NO NO
			Claims		- 110
				<u> </u>	
As per at least least least least least at least said at least said per at least lea	Johanser r claim 1, r (18, FIG st one etc termined at one ser it least or id rearwa r claim 3, redeterm r claim 4, upled to 5	n et al. (hereinafter: Johans Johansen describes a cat 5, 1) having at least one lurongate element (14/64/62, bendable portion location (estably inflatable balloon (end of said balloon heir Johansen describes the callo bendable portion location (1,3), Johansen describes (1,4),	heter (10, FIG nen (17, FIG. FIG. 2; col 2, I therealong for 76, FIG. 4) co con having a f ig located rear atten (FIG. 4). the catheter a forwardly of sa	1; col 2, in 38-40); in 20-25), said at least one alongate element having a bendable portion word of a distal end of said tube (FIGS, 2-4); and immunicating with at least one of said at least one lumen (col 2, in 67-4); forward end (distal end of 76, FIG. 4) and a rearward end (proximal end wardly of said predetermined bendable portion location (FIG. 4).  Iting to claim 1 and wherein said forward end of said balloon is located eccording to any of claims (1,3) and also comprising a element said predetermined bendable portion location (col 5, in 62 - col 6, in 11).  Secording to claim 4/(1,3) and wherein said steering element is manipulated.	i (64) at a col 3, In 5). I of 76, FIG. forwardly of i (92/62, FIG
a tube prede et lea said s 4), sa	e (14/64/6 termined st one se et least or eid rearW8	, bendable portion location Hectably inflatable balloon he salectably inflatable ball ard end of said balloon beis	having at leas therestong (F (76, FIG. 4) co con having a t ng located res	t one lumen (17, FIG. ); (b); 2, in 3840) and having a periodic police. IGS, 2-4); and ommunicating with at least one of said at least one lumen (col 2, in 67- forward and (distal and of 76, FIG. 4) and a rearward and (proximal and wardly of said predetermined bendable portion location (FIG. 4).	cal 3, in 5), d of 76, FIG.
said p	)redetern	ujueq peugapje boltjoti jod	500n (FIG. 4).		
(92/ <del>6</del> :	2, FIG. 2)	coupled to said elongate	element (14) t	ter according to any of claims (10,12) and also comprising a steering e orwardly of said predeterminad bendable portion location (col 5; in 62 -	col 6, In 11)
As ps manij	or claim 1 Outstable	4/(10,42), Johansen descr by en operator for steening	ibes the cathe g of said caths	ter according to claim 13/(10,12) and wherein said ateering element is ter (col 5, in 62 - col 5, in 11).	
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		ase See Continuation Shed	<u> </u>		
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International application No.

PCT/IL 08/00687

#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:
\_\_\_\_Box V.2. Citations and explanations-------

Claims 1, 2, 4/(2), 5/(2), 10, 11, 13/(11) and 14/(11) lack novelty under PCT Article 33(2) as being anticipated by US 2005/0273021 A1 (Burgeimeister).

As per claim 1, Burgermeister describes a catheter (para[0003]; FIG. 1) comprising:

a tube (27, FIG. 2) having at least one lumen (FIG. 2);

at least one elongate element (20, FiG. 1; para[0018]) , said at least one elongate element having a bendable portion (34, FiG. 2; para[0022]) at a predetermined bendable portion location therealong forward of a distal end of said tube (FIG. 2); and at least one selectably inflatable balloon (29) communicating with at least one of said at least one lumen, said at least one selectably inflatable balloon having a forward (distal end FIG. 2) end and a rearward end (proximal end FIG. 2), said rearward end of said balloon being located rearwardly of said predetermined bendable portion location (FIG. 2).

As per claim 2, Burgermeister describes the catheter according to claim 1 and wherein said forward end of said balloon is located rearwardly of said predetermined bendable portion location (FIG. 2).

As per claim 4/(2), Burgermeister describes the catheter according to claim (2), also comprising a steering element (24, Fig. 1; para[0022]-[0024]) coupled to said elongate element (34) forwardly of said predetermined bandable portion location (22, FIG. 2; para[0023]).

As per claim 5/(2), Burgermeister describes the catheter according to claim 4/(2), wherein said steering element is manipulatable by an operator for steering of said catheter (para[0029]).

As per claim 10, Burgermeister describes a catheter (para(0003); FIG. 1) comprising:

a tube (20/27, FIG. 2) having at least one tumen and having a bendable portion (34, FIG. 2; para[0022]) at a predetermined bendable

portion location therealong (FIG. 2); and

at least one selectably inflatable balloon (29) communicating with at least one of said at least one lumen, said at least one selectably inflatable balloon having a forward (distal and FIG. 2) and and a rearward and (proximal and FIG. 2), said rearward and of eaid balloon being located rearwardly of said predetermined bendable portion location (FIG. 2).

As per claim 11, Surgermeister describes the catheter according to claim 10 and wherein said forward end of said balloon is located rearwardly of said predetermined bendable portion location (FIG. 2).

As per claim 13/(11), Burgermeister describes the catheter according to claim (11), also comprising a steering element (24, FIG. 1; para[9022]-[0024]) coupled to said alongate element (34) forwardly of said predetermined bendable portion location (22, FIG. 2; para[0023]).

As per claim 14/(11), Burgermeister describes the catheter according to claim 13/(11), wherein said steering element is manipulatable by an operator for steering of said catheter (para[0029]).

Claims 19-21 tack an inventive step under PCT Article 33(3) as being obvious over Johansen in view of WQ 2004/101059 A1 to (Kennedy).

As per claim 19, Johansen describes a catheter (10, FIG. 3) comprising:

e tube (18, FIG. 1) having at least one (umen (17, FIG. 1; col 2, in 38-40);

at least one slongate element (14/64/62, FiG. 2; col 2, in 20-25), which a distal end of said at least one elongate element (62, FiG. 2)

extends beyond said distal end of said tube (cap at 66) by a fixed amount (FIG. 2);

and at least one selectably inflatable balloon (76, FIG. 4) communicating with at least one of said at least one lumen (col 2, in 67- col 3, in 5), said at least one selectably inflatable balloon having a forward end (distal end of 76, FiG. 4) and a rearward end (proximal end of 76,

said rearward end of said balloon being located adjacent said distal end of said tube at a rearward balloon end mounting location (90) and sald forward end of said balloon being located adjacent a distell end of said at least one elongate element at a forward balloon and

mounting location (92). thereby producing bowing of said at least one elongate element upon inflation of said baltoon (FiGS, 2-4).

But falls to describe wherein at least part of the elongate element is extendable forwardly of a distal end of said tube. However, it would have been obvious to one skilled in the art to provide the device within a further catheter, such that it is extendable out of the end of a tube so as to further protect clongate tube and because by nature, catheters are designed for Insertion for further catheters within their lumane.

Johanson further falls to teach the limitation described by Kennedy wherein said balloon is configured such that when said at least one elongate element is in said fixed orientation and said balloon is in a defiated operative orientation, the distance between said rearward balloon and mounting location and said forward balloon and mounting location is greater than the distance between said rearward balloon end mounting location and said forward balloon and mounting location when said balloon is an inflated operative orientation (FiGS, 5; p4,

It would have been obvious to one skilled in the art to make the bending section a completely bowing section as described by Kennedy on the device of Johansen (as opposed to extension and bowing) because doing so would provide a tighter radius of curvature and because bowing of catheter ends is a known processes in the art of balloon catheters (Kennedy: p4, in 3-12).

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International application No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	PCT/II., 08/00687
Supplemental Box	
In case the space in any of the preceding boxes is not sufficient.  Continuation of:  Supplemental Box:	
As per claim 20, Johansen and Kennedy describe the catheter according to claim 19, but a said rearward balloon end mounting location and said forward balloon end mounting location and said forward balloon end mounting location and said forward balloon end mounting location we	hen said batioon is an inflated operative
However, it would have been obvious to one skilled in the art to provide differences or 207 for increased applicability in torturous vasculature though routine testing.	
As per claim 21, Johansen and Kennedy describe the catheter according to claim 19 or classic bowing of said elongate element is in a predetermined direction (coi 5, in 42-44; FIG.	aim 20, Johansen further describes and wherein 4).
Claims 29 lacks an Inventive step under PCT Article 33(3) as being obvious over Johanse (hereinafter: Oishi).	
As per claim 29. Johannen describes an enhanced flexibility auxiliary assembly (10, PIG. comprising: at least one flexible elongate element (14/64/62, FIG. 2; col 2, in 20-25);	
a flexible sleave (14/64/62, FIG. 2; col 2, in 20-25) having a first turner for accommodating	
1; col 2, in 36-40); and an initialist believe (76, FiG. 4), said inflatable balloon an initialist believe (76, FiG. 4), said inflatable balloon an initialist believe (76, FiG. 4), said inflatable balloon facing generally tapered end (92, FiG. 2) and a rearwardly facing generally tapered are with a second lumen for accommodal wherein said forwardly facing generally tapered and having a slope which is less steep the	oor, reality ting said at least one flexible elongate element or
fecing generally tapered end. However, Olshi describe an endoscope device with multiple lumens for a balloon device the balloon is configured such that said forwardly tacing generally tapered and having a s	and extra endoscopic devices (para[0042]), when
slope of said rearwardly facing generally tapered end (FIG. 3).  It would have been obvious to one skilled in the art to employ an endoscope for the device Johansen (in place of a plain catheter) so as to visualize the procedure, as well as to protapered forward end in because doing so would provide a less traumatic device during in	e as described by Q(sh) on the device of vide lumens for various tools and to provide a les
Claims 1-5, 10-14, 19-21 and 29 have industrial applicability as defined by PCT Article 30	3(4) because the subject matter can be made or
used in industry.	
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# SEQUENCE LISTINGS AND TABLES RELATED THERETO IN INTERNATIONAL APPLICATIONS FILED IN THE U.S. RECEIVING OFFICE

The Administrative Instructions (Als) under the Patent Cooperation Treaty (PCT), in force as of July 1, 2009, contain important changes relating to the manner of filing, and applicable fees for, sequence listings and/or tables related thereto (sequence-related tables) in international applications. The complete text may be accessed at http://www.wipo.int/pct/en/texts/index.htm.

Effective July 1, 2009, Part 8 and Annex C-bis will no longer form part of the Als. Part 8 was introduced in 2001 as a temporary solution to problems arising from the filing of very large sequence listings on paper and provided for a sequence listing forming part of the international application to be filed in electronic form on physical medium (e.g., CD), together with the remainder of the application on paper. In 2002, Part 8 was expanded to include sequence-related tables and Annex C-bis was added to provide technical requirements. All applicants may now file complete international applications in electronic form, climinating the need for these temporary provisions.

### I. AIS PART 8 AND ANNEX C-BIS DELETED AS OF JULY 1, 2009

- A) Sequence-related tables cannot be filed as a separate part of the description or in text format. They must be provided as an integral part of the international application either:
  - in PDF format as part of an international application filed in electronic form via EFS-Web; or
  - on paper as part of an international application filed on paper.
- B) A sequence listing forming part of an international application may be provided either:
  - in electronic form, as part of an international application filed in electronic form via EFS-Web, in
     Annex C/ST.25 text format (preferred), or
    - PDF format; or
  - on paper as part of an international application filed on paper.
- C) A sequence listing not forming part of the international application (for search under PCT Rule 13ter) in Annex C/ST.25 text format
  - is not required where the sequence listing forming part of the international application was filed in Annex C/ST.25 text format as part of an international application filed in electronic form via EPS-Web
  - is required for search where the sequence listing forming part of the international application was filed in PDF
  - is required for search on physical medium (e.g., CD) where the sequence listing forming part of the international application was filed on paper as part of an international application filed on paper.

## II. CALCULATION OF THE INTERNATIONAL FILING FEE AND FEE REDUCTION UNDER AI § 707

- A) A sequence-related table must form an integral part of the international application and will incur FULL page fees with no upper limit.
- B) A sequence listing forming part of an international application filed:
  - via EFS-Web in Annex C/ST.25 text format will incur NO page fees;
  - on paper or in PDP format will incur FULL page fees with no upper limit.

## III. AVAILABILITY OF SEQUENCE LISTINGS SUBMITTED FOR SEARCH UNDER PCT RULE 13TER

International Searching Authorities will be required to transmit to the International Bureau a copy of an Annex C/ST.25 text format sequence listing provided for search under PCT Rule 13ter. Any such sequence listing will be made available on PATENTSCOPE® (sequence listings forming part of the international application are already available).

### IV. JULY 2009 REQUEST (PCT/RO/101)

The Request now has two options for the last sheet; one for paper filings; and one for EFS-Web filings. The July 2009 Request may be accessed at http://www.wipo.inf/pct/en/forms/index.htm.

### NOTES TO FORM PCT/ISA/220

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These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see PCT Applicant's Guide, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Scarching Authority has declared, under Article 17(2), that no international search report would be established (see PCT Applicant's Guide, Volume I/A, paragraph 296).

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

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The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article, 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.